

C&D TECHNOLOGIES

Power Solutions

MCT II

**MORE POWER.
CLEARLY UNIQUE.**

**100% CAPACITY
AT TIME OF SHIPMENT**

**Standby batteries for large power applications
3000 and 4000 Ampere-hours**



FEATURES AND BENEFITS

- Optimized for today's higher rate, shorter duration discharges
- Transparent container allows visual inspection of plates
- Container wall stiffening rim computer verified to limit jar wall bulges
- Container support cradle adds durability, restrains bulge at elevated temperatures, enhances seismic performance, and functions as cell spacer
- Flame-retardant covers enhance battery plant safety
- Soft rubber post seal absorbs shock and vibration
- Long life positive plates cast with proprietary vacuum assist bottom pour equipment
- CPR Number 134840 (MCT 4000) and 135911 (MCT 3000)

SPECIFICATIONS

Plates	Height	Width	Thickness
Positive	18.75 in (476 mm)	12.80 in (325 mm)	.308 in (7.82 mm)
Negative	18.75 in (476 mm)	12.80 in (325 mm)	.190 in (2.83 mm)
Recommended Float Voltage	2.21-2.22 @ 1.215 specific gravity; 2.25-2.26 @ 1.250 specific gravity		
Electrolyte height above plates	3.55 in (90 mm)		
Sediment space	1.25 in (32 mm)		
Electrolyte at 77F (25C)	Sulfuric Acid, 1.215 specific gravity nominal (Optional 1.250)		
Container Choices (Transparent)	<ul style="list-style-type: none"> • Thermoplastic (SAN) • High-impact, flame-retardant thermoplastic (PVC) Flammability ratings: UL 94-V-0; LOI > 33 • High-impact, flame-retardant thermoplastic (polycarbonate) Flammability ratings: UL 94-V-0; LOI > 34 		
Container Support Cradle*	High-impact, flame-retardant thermoplastic. Flammability rating: UL 94V-0; LOI > 28; ASTM D-635 self-extinguishing (*cradle provided as standard with SAN and PVC jars)		
Cover	High-impact, flame-retardant thermoplastic (PVC), with tongue-and-groove seal. Flammability ratings: UL 94-V-0; LOI > 33; ASTM D-635 self-extinguishing		
Separator	Microporous rubber		
Retainer	Fibrous glass mat		
Safety vent system	Flame arrester type		
Terminals	Four 1.375 in (35 mm) square posts per cell		
Electrolyte withdrawal tubes	Two per cell		
Intercell Connectors	Lead-plated copper (Stainless steel hardware)		

CELL SPECIFICATIONS

Type of cell	Cells per unit	Plates per cell	Overall dimensions			Approx. wt. lbs (kgs)		Gal. (Liters)	Electrolyte	Internal Resistance** (ohms)
			L in (mm)	W in (mm)	H in (mm)	Net filled	Dom. packed	Electrolyte per cell	Weight per Cell*	
MCTII -3000	1	31	15.12 (384)	17.25 (438)	28.9 (735)	635 (289)	653 (296)	19 (72)	190 (87)	.000100
MCTII -4000	1	41	15.12 (384)	17.25 (438)	28.9 (735)	697 (317)	715 (325)	15 (57)	150 (69)	.000075

*Electrolyte weighs approximately 10 lbs per gallon (1.210 kgs per liter).

**Includes connector.

CELL RATINGS

Final volts	Models	Nominal rates at 77F (25C) (includes connector voltage drop)						
		Amperes per cell						
		8 Hrs.	5 Hrs.	4 Hrs.	3 Hrs.	2 Hrs.	1 Hr.	.5 Hr.
1.90	MCT-3000	277	370	422	489	585	714	777
	MCT-4000	369	493	562	652	780	952	1036
1.88	MCT-3000	298	404	461	532	635	795	915
	MCT-4000	397	538	614	709	847	1060	1220
1.86	MCT-3000	313	426	487	568	690	895	1049
	MCT-4000	418	567	649	758	920	1193	1399
1.85	MCT-3000	321	437	500	587	718	945	1116
	MCT-4000	428	582	666	782	957	1260	1488
1.84	MCT-3000	326	445	512	604	740	984	1178
	MCT-4000	435	594	682	806	987	1312	1571
1.81	MCT-3000	341	471	546	658	808	1101	1366
	MCT-4000	454	628	728	877	1077	1468	1821
1.80	MCT-3000	346	480	558	676	830	1140	1428
	MCT-4000	461	640	744	901	1107	1520	1904
1.78	MCT-3000	357	495	575	692	861	1211	1564
	MCT-4000	477	660	766	922	1147	1615	2085
1.75	MCT-3000	375	518	599	716	906	1319	1767
	MCT-4000	500	691	798	954	1208	1758	2356

Notes:

1. All rates conform to IEEE-450-1995
2. For all rates less than 8 hours, 99% capacity or greater can be expected on a string basis
3. For the 8 hour rate, 90% capacity or greater can be expected on a string basis



RACK SPECIFICATIONS

STANDARD (NON-SEISMIC) (UBC 0)						
NUMBER OF CELLS	Two tier / One row Model RD-2083-(L) Width: 22.50 in (572 mm) Height: 43.50 in (1105 mm)			Two tier / Two row Model RD-2059-(L) Width: 45.38 in (1152 mm) Height: 43.50 in (1105 mm)		
	Length - (L) FT (mm)	Weight LBS (kgs)		Length - (L) FT (mm)	Weight LBS (kgs)	
12	8 (2438)	350 (159)		—	—	
24	16 (4877)	640 (290)		8 (2438)	600 (272)	
48	—	—		16 (4877)	1200 (544)	

SEISMIC BELLCORE ZONE 2 (UBC 3&4)						
NUMBER OF CELLS	Two tier / One row Model RD-2083-(L)-BC2 Width: 28.50 in (724 mm) Height: 59.50 in (1511 mm)			Two tier / Two row Model RD-2059-(L)-BC2 Width: 55.75 in (1416 mm) Height: 59.50 in (1511 mm)		
	Length - (L) FT (mm)	Weight LBS (kgs)		Length - (L) FT (mm)	Weight LBS (kgs)	
12	8 (2438)	575 (260)		—	—	
24	16 (4877)	1150 (521)		8 (2438)	1025 (464)	
48	—	—		16 (4877)	2000 (906)	

SEISMIC BELLCORE ZONE 4 (UBC 4+)						
NUMBER OF CELLS	Two tier / One row Model RD-2083-(L)-BC4 Width: 28.50 in (724 mm) Height: 59.50 in (1511 mm)			Two tier / Two row Model RD-2059-(L)-BC4 Width: 55.75 in (1416 mm) Height: 59.50 in (1511 mm)		
	Length - (L) FT (mm)	Weight LBS (kgs)		Length - (L) FT (mm)	Weight LBS (kgs)	
12	8 (2438)	575 (260)		—	—	
24	16 (4877)	1165 (528)		8 (2438)	1100 (498)	
48	—	—		16 (4877)	2200 (997)	

Notes:

1. For rack lengths not shown contact C&D engineering
2. Rack width does not include thickness of crossbracing. Increase width by 0.5 inches (12.7 mm) when this dimension is critical.
3. Typical cell installation on racks is with plates parallel to rack rails.
4. For other cell configurations and rack types, contact C&D Engineering.



High Quality Battery Racks and Spill Containment Systems are C&D TECHNOLOGIES Specialties

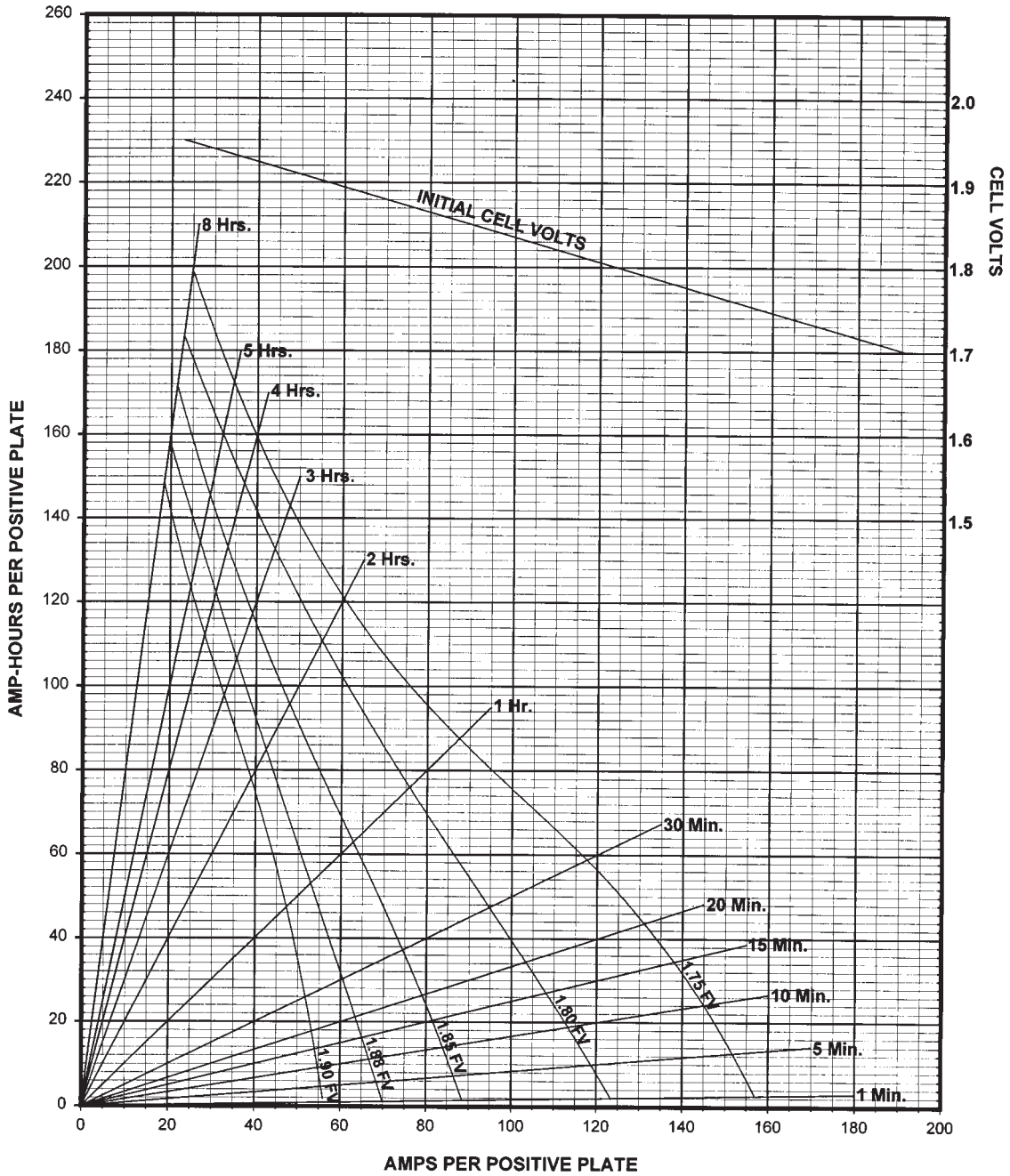
C&D TECHNOLOGIES offers quality racks to support its highly regarded **MCTI** product line. The racks offer a range of quality features while maintaining a competitive price structure.

- Galvanized Rails — 3 or 4 Cell Rail Designs
- Rugged “C-Channel” Frame Design
- Welded Steel Frames with an Acid Resistant, Electro-statically Applied Epoxy Powder Coat, ANSI 61 Gray
- Rails Accommodate Clip Nuts for Bolt-on Accessories
- Simplified Installation with Accessible Anchor Bolt Locations
- Racks are Shipped Unassembled
- Available for all Seismic Zones

C&D TECHNOLOGIES offers spill containment systems designed to meet and, in many cases, exceed all applicable Federal and State regulations by providing you with reliable, solid performance for hazardous material spills.

- Assembled with Flanges out or with Flanges in to Maximize Aisle Space
- PVC Coated Metal Construction
- Modular Design for Easy Installation & Maintenance
- Reusable in the Event of Future Expansion
- Complete System with Neutralizing & Absorbing Pillows

CELL MODELMCT 3000 OR 4000
 NUMBER OF POSITIVE PLATES15 OR 20
 ELECTROLYTE SPECIFIC GRAVITY1.215 + .005
 TEMPERATURE.....77°F
 TEST PROCEDURE.....IEEE 450-1995
 DISCHARGE CHARACTERISTIC CURVE....D-644



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